

FIGURE 1

113/99

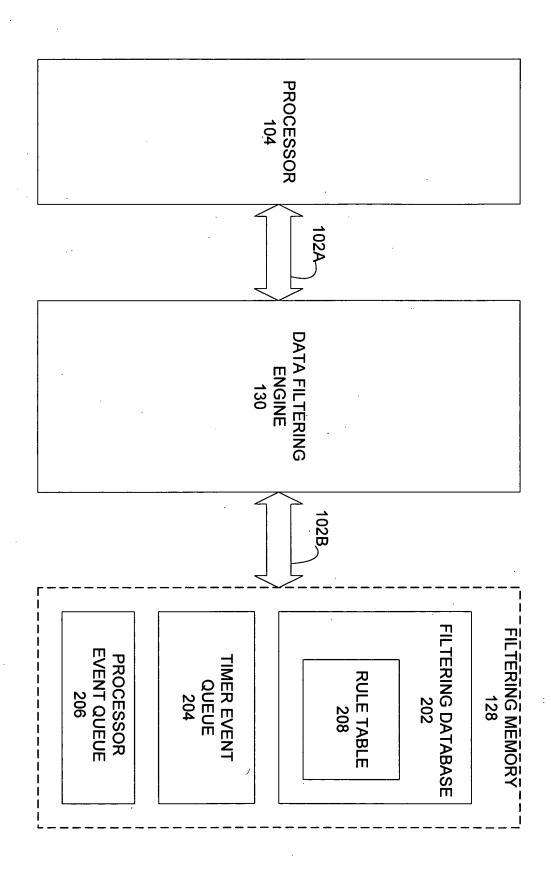


FIGURE 2

(SEQUENTIAL DATA FILTERING

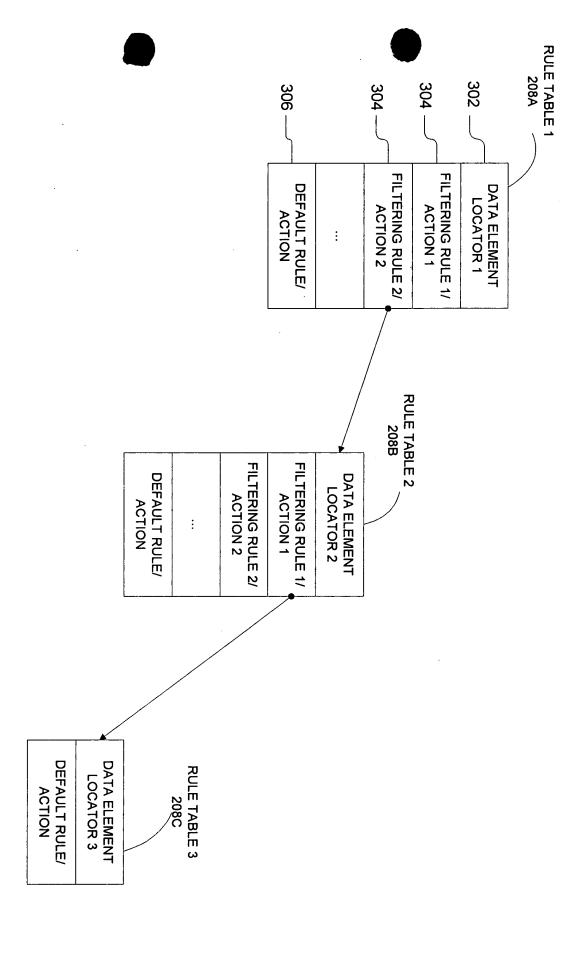


FIGURE 3

TREE	TABLE TIMER	TABLE ID	DEFAULT RULE POINTER	RULE POINTER	FIELD SELECTION	TYPE FIELD
LEFT POINTER 420	TIMER CONTROL 414	TABLE ID 412	DEFAULT RULE POINTER 411	RULE POINTER 410	OFFSET 406	TYPE == DATA ELEM
RIGHT POINTER 422	RELOAD VALUE				MASK 408	TYPE == DATA ELEMENT LOCATOR 402
BALANCE FACTOR 424	TIMER VALUE 418			١ .		

FIGURE 4 (DATA ELEMENT LOCATOR STRUCTURE)

302

FIGURE 5B

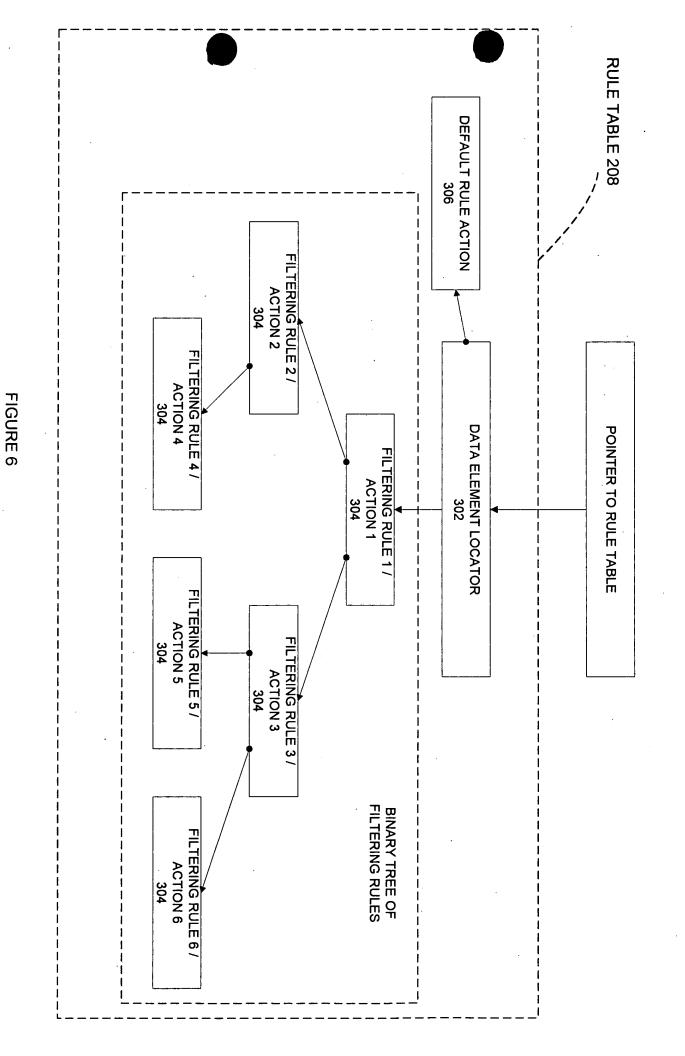
306

STATISTICS	RULE TIMER	ACTION	TYPE FIELD
STATISTICS CONTROL 564	TIMER CONTROL 558	INSTRUCTION 554	TYPE == DE
THRESHOLD 566	RELOAD VALUE 560	USER DATA (TAG) 556	TYPE == DEFAULT RULE 550
VALUE 568	TIMER VALUE 562		

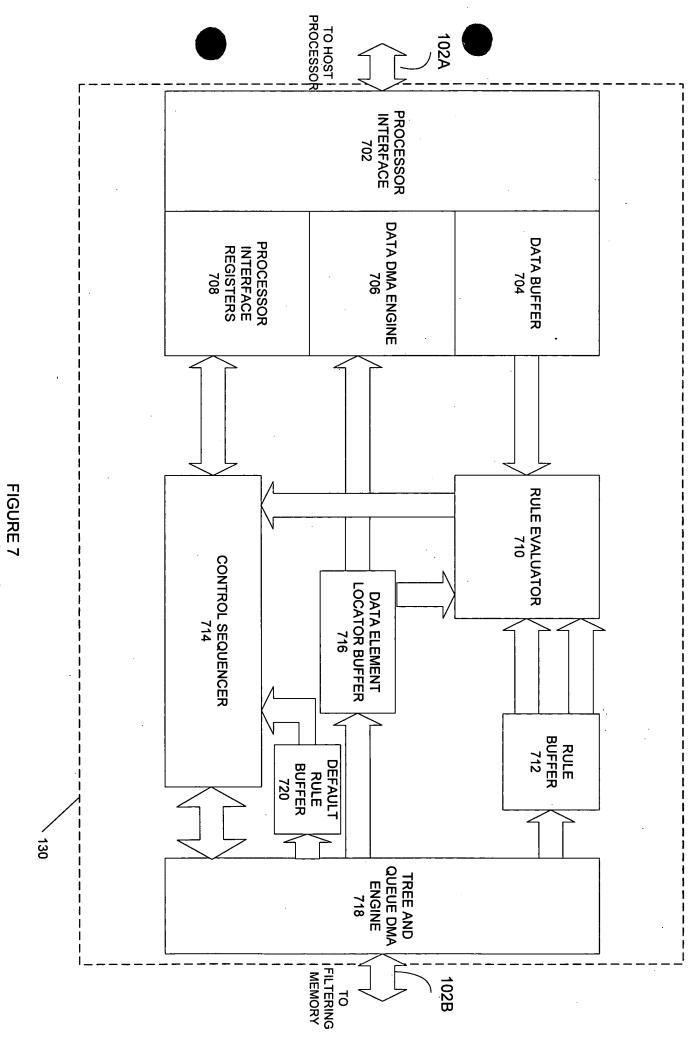
FIGURE 5A (FILTERING RULE)

304

STATISTICS RULE TIMER ACTION RANGE TEST RULE TREE TYPE TIMER CONTROL 520 INSTRUCTION 516 LEFT POINTER 510 LOWER BOUND 506 STATISTICS CONTROL TYPE == FILTERING RULE USER DATA (TAG) 518 UPPER BOUND 508 RIGHT POINTER 512 RELOAD VALUE THRESHOLD 528 522 BALANCE FACTOR 514 TIMER VALUE 524 VALUE 530



(RULE TABLE WITH A BINARY FREE OF PURPLE OF FILTERING RULES)



DATA FILTERING ENGINE

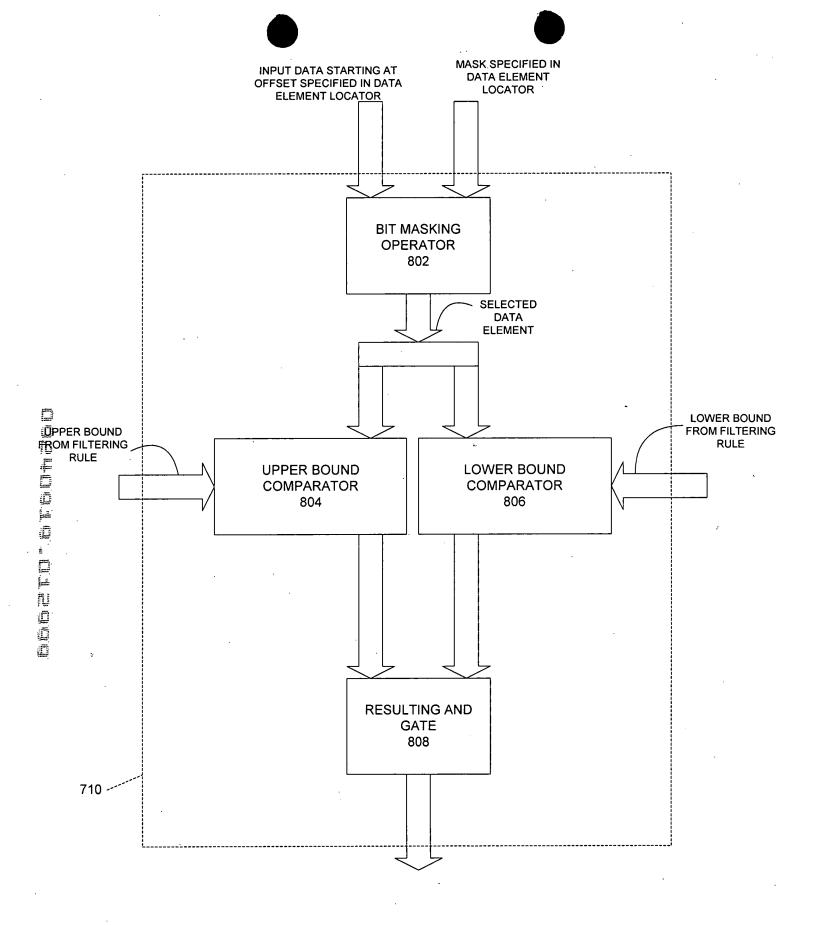
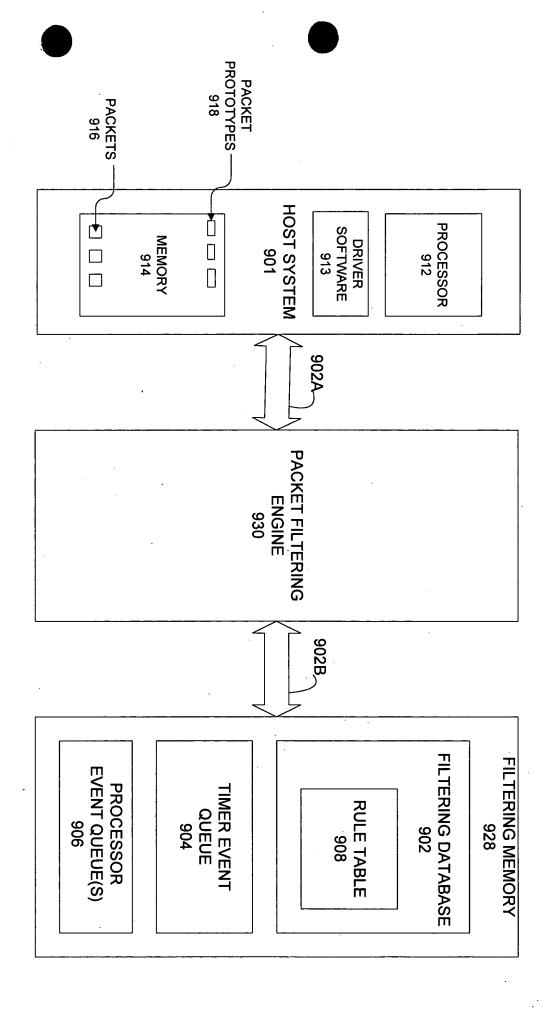


FIGURE 8 (RULE EVALUATOR 710)



900

FIGURE 9A

(SEQUENTIAL PACKET FILTERING SYSTEM)

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FIGURE 9B APPLICATION OF MULTIPLE EVENT QUEUES

PROCESSOR EVENT QUEUE(S) 906

VOICE PACKET RECOGNIZED

HIGHEST PRIORITY QUEUE

MID-PRIORITY QUEUE

OTHER PACKET WITH LOWER QOS RECOGNIZED

LOWEST PRIORITY QUEUE

STATISTICS EVENT

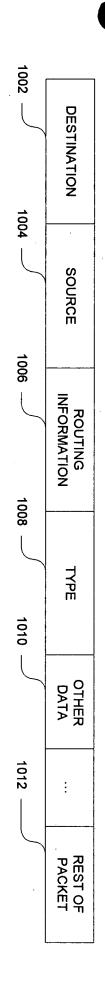


FIGURE 10 (PACKET FORMAT)

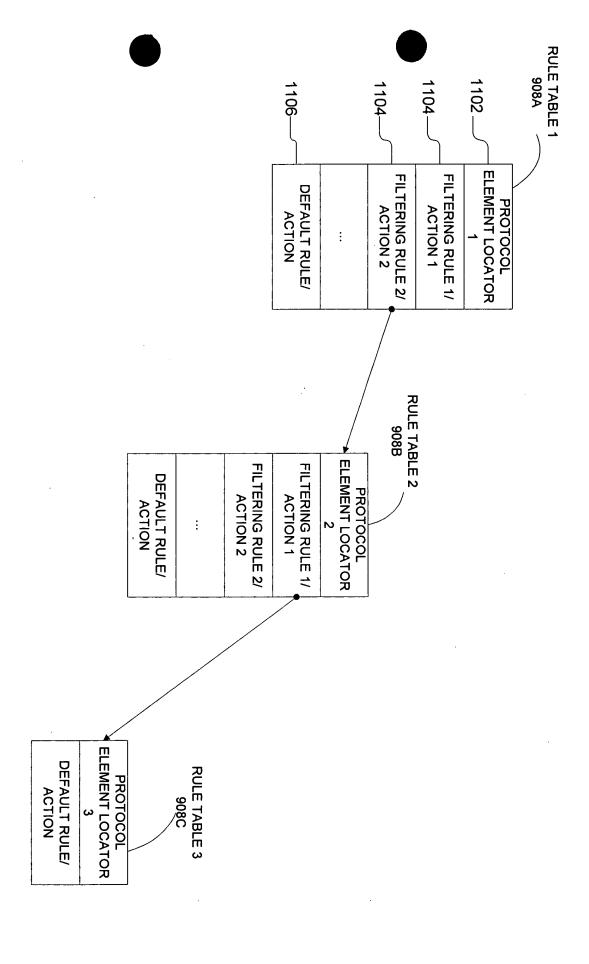


FIGURE 11

DEFAULT RULE POINTER FIELD SELECTION **RULE POINTER TABLE TIMER** TABLE ID TREE TYPE FIELD TYPE == PROTOCOL ELEMENT LOCATOR DEFAULT RULE POINTER 1211 TIMER CONTROL 1214 **RULE POINTER** LEFT POINTER TABLE ID 1212 OFFSET 1206 1210 1202 RIGHT POINTER 1222 RELOAD VALUE 1216 MASK 1208 **BALANCE FACTOR** TIMER VALUE 1218

FIGURE 12A

MASK	PACKET DATA	OFFSET = 29	
0x00 FF FF FF FF 00 00 00	×	29	(PF
Ŧ	S X	30	ROTC
뀨	8	<u> </u>	S1 S1
뀌	FE	32	. ELE
뀨	CO FE 03 XX XX	29 30 31 32 33 34 35 36	(PROTOCOL ELEMENT LOCATOR STRUCTURE)
8	×	34	E) T[O
8	×	35	CATO
8	×	36	R
			·

192.192.254.3 AN IP HOST ADDRESS

FIGURE 12B

(SELECTED PROTOCOL SLEMENT)

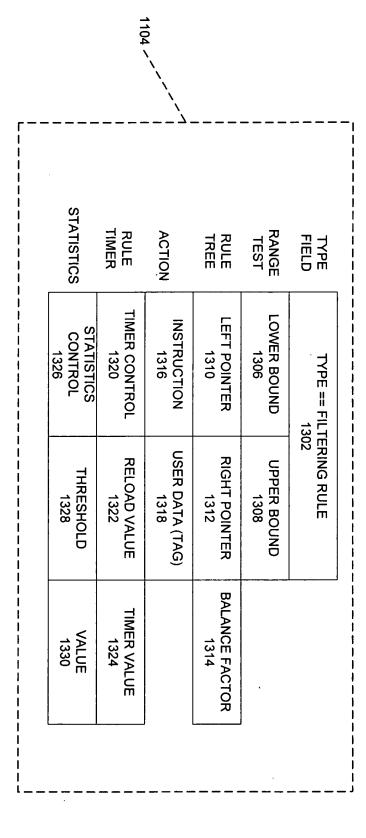
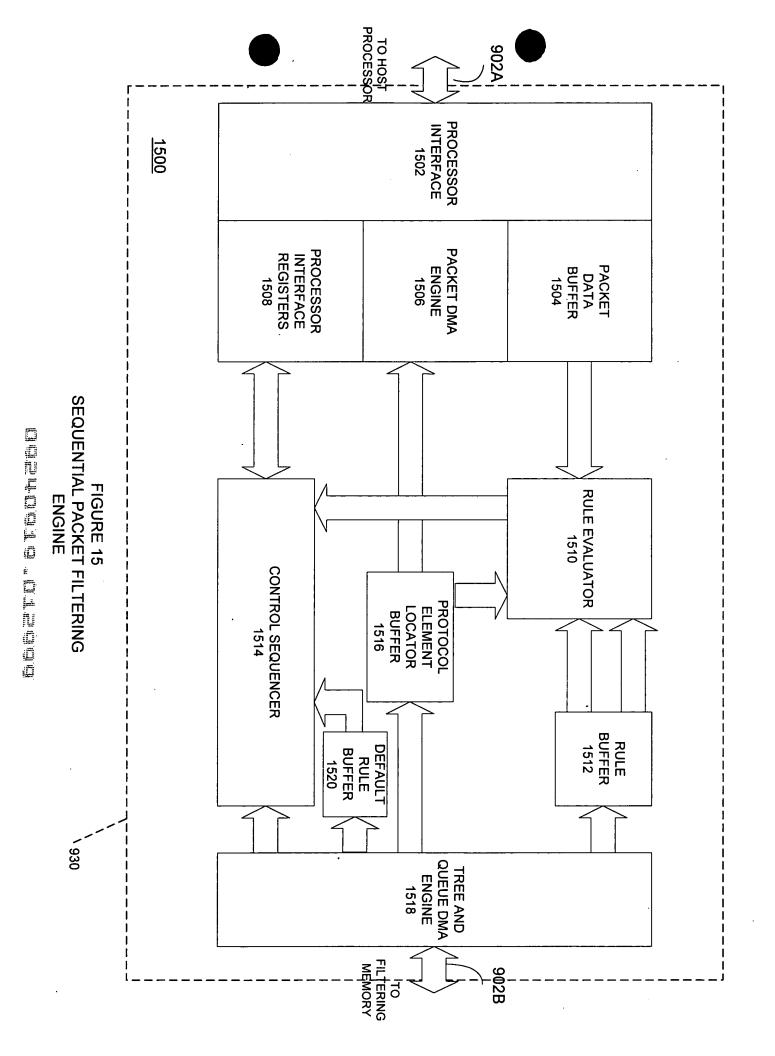
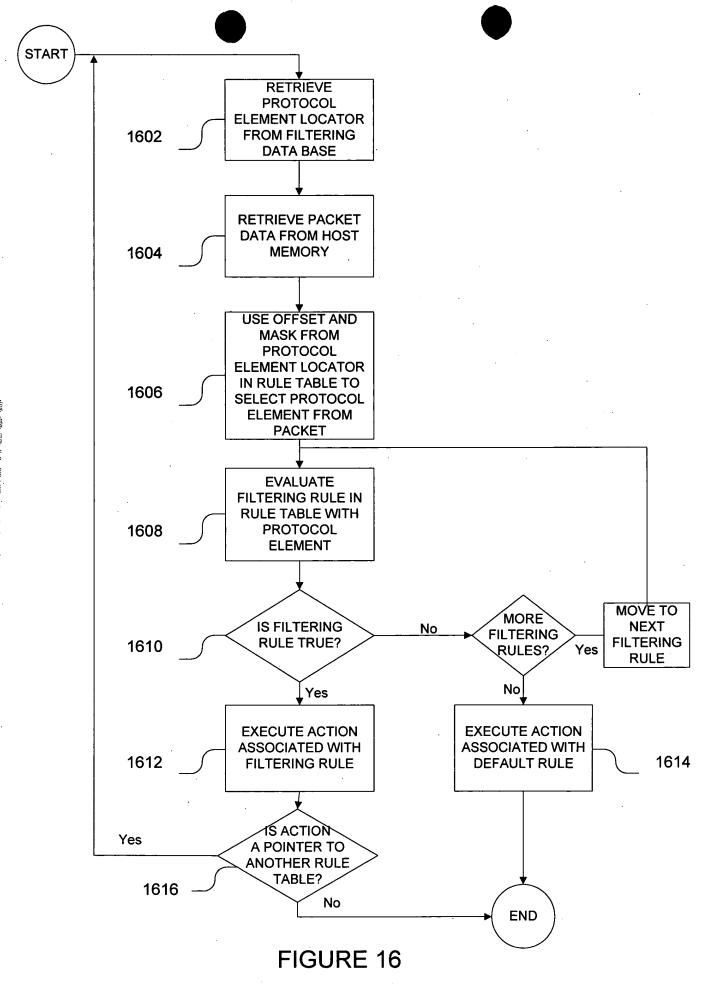


FIGURE 13A (FILTERING RULE)

		1106 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\
STATISTICS	RULE	ACTION	TYPE FIELD
STATISTICS CONTROL 1364	TIMER CONTROL 1358	INSTRUCTION 1354	TYPE == DE 13
THRESHOLD 1366	RELOAD VALUE 1360	USER DATA (TAG) 1356	TYPE == DEFAULT RULE 1350
VALUE 1368	TIMER VALUE 1362		

FIGURE 13B (DEFAULT RULE)





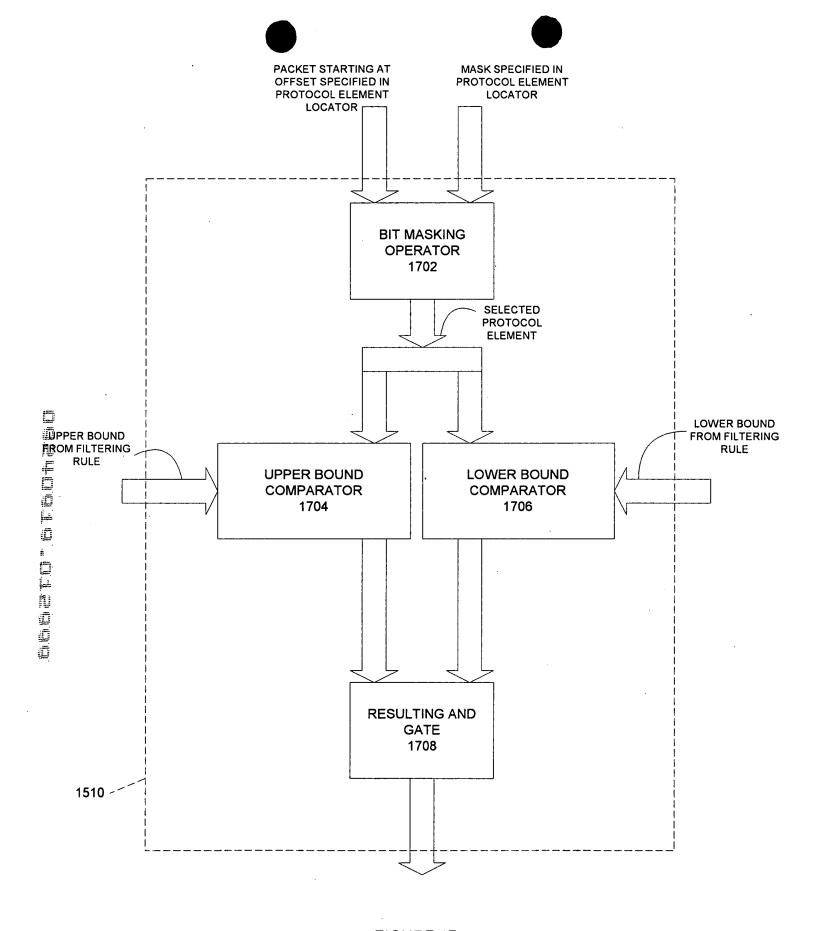
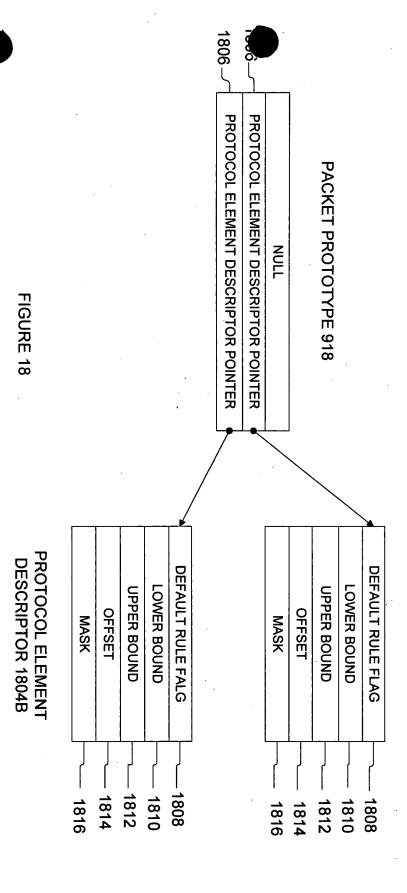


FIGURE 17 (RULE EVALUATOR)

PROTOCOL ELEMENT DESCRIPTOR 1804A



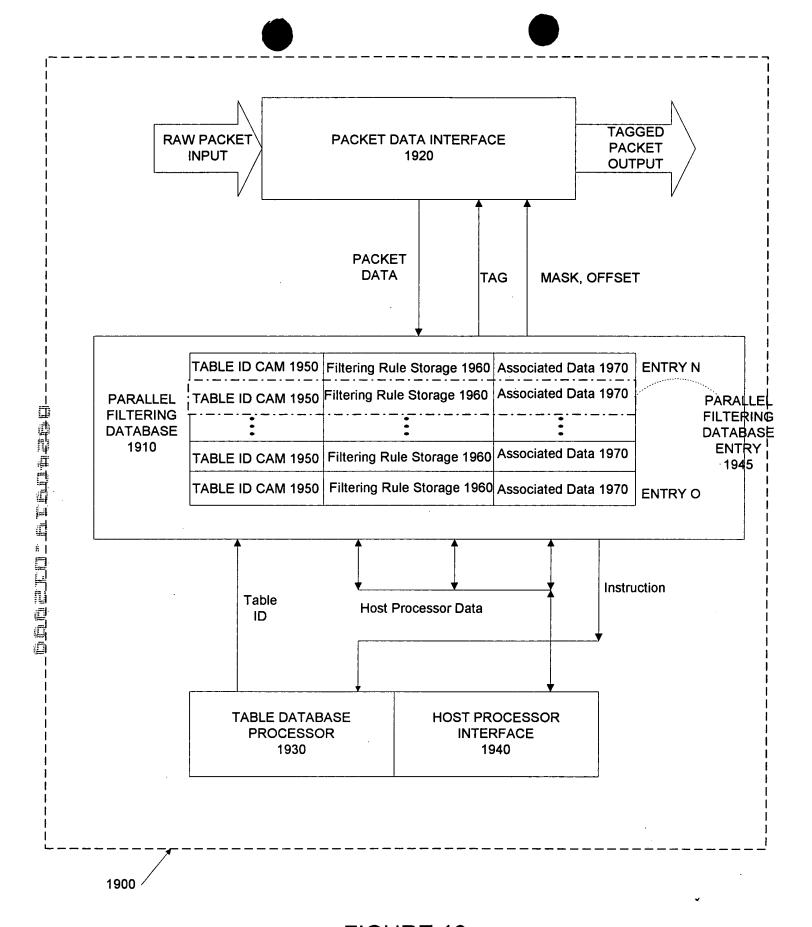


FIGURE 19
PARALLEL PACKET FILTERING SYSTEM

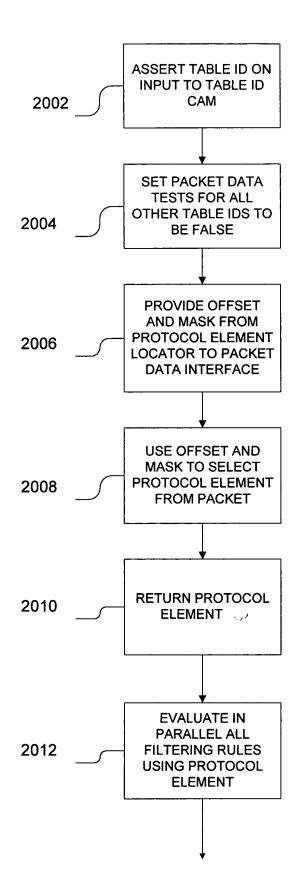


FIGURE 20A

